

# ABSTRACT OF THE DISCLOSURE

A full coverage area spray device has an oscillation chamber. Chamber end plates have a diameter  $D$  and the distance between the inlet and outlet apertures is  $L$  and ratio  $L/D$  determines the spray pattern and is adapted to support a basic toroidal flow pattern that remains captive within the confines of the oscillation chamber. The toroid spins about its cross-sectional axis and being supplied energy from the jet of liquid issued into the oscillation chamber. The toroidal flow pattern has diametrically opposed cross-sections which alternate in size to cause the jet to move in radial paths and also in tangential direction and thereby choose a different radial path at each sweep, whereby there is a random sweeping of the jet issuing from the outlet aperture over the area.